Alexei Ossadtchi

List of Publications by Year
in descending order

53 papers	2,171 citations	516710 16 h-index	254184 43 g-index
68 all docs	68 docs citations	68 times ranked	2549 citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of Abel-transformable images: The Gaussian basis-set expansion Abel transform method. Review of Scientific Instruments, 2002, 73, 2634-2642.	1.3	827
2	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	7.6	188
3	Connectivity measures applied to human brain electrophysiological data. Journal of Neuroscience Methods, 2012, 207, 1-16.	2.5	183
4	Local linear estimators for the bioelectromagnetic inverse problem. IEEE Transactions on Signal Processing, 2005, 53, 3403-3412.	5.3	145
5	Automated interictal spike detection and source localization in magnetoencephalography using independent components analysis and spatio-temporal clustering. Clinical Neurophysiology, 2004, 115, 508-522.	1.5	96
6	Electrophysiological precursors of social conformity. Social Cognitive and Affective Neuroscience, 2013, 8, 756-763.	3.0	68
7	Decoding Movement From Electrocorticographic Activity: A Review. Frontiers in Neuroinformatics, 2019, 13, 74.	2.5	61
8	Source-space EEG neurofeedback links subjective experience with brain activity during effortless awareness meditation. NeuroImage, 2017, 151, 117-127.	4.2	57
9	High-Throughput Imaging of Brain Gene Expression. Genome Research, 2002, 12, 244-254.	5.5	49
10	Multiplex Three-Dimensional Brain Gene Expression Mapping in a Mouse Model of Parkinson's Disease. Genome Research, 2002, 12, 868-884.	5.5	47
11	Finding new candidate genes for learning and memory. Journal of Neuroscience Research, 2002, 68, 127-137.	2.9	38
12	Genes regulated by learning in the hippocampus. Journal of Neuroscience Research, 2003, 71, 763-768.	2.9	38
13	Automatic processing of unattended lexical information in visual oddball presentation: neurophysiological evidence. Frontiers in Human Neuroscience, 2013, 7, 421.	2.0	27
14	Analysis of neuronal ensemble activity reveals the pitfalls and shortcomings of rotation dynamics. Scientific Reports, 2019, 9, 18978.	3.3	26
15	High-resolution voxelation mapping of human and rodent brain gene expression. Journal of Neuroscience Methods, 2003, 125, 93-101.	2.5	23
16	Gene expression tomography. Physiological Genomics, 2002, 8, 159-167.	2.3	21
17	Neurofeedback learning modifies the incidence rate of alpha spindles, but not their duration and amplitude. Scientific Reports, 2017, 7, 3772.	3.3	20
18	Phase shift invariant imaging of coherent sources (PSIICOS) from MEG data. NeuroImage, 2018, 183, 950-971.	4.2	18

#	Article	IF	Citations
19	Evolution of <scp>MEG</scp>: A first <scp>MEG</scp>â€"feasible fluxgate magnetometer. Human Brain Mapping, 2021, 42, 4844-4856.	3.6	17
20	Short-delay neurofeedback facilitates training of the parietal alpha rhythm. Journal of Neural Engineering, 2020, 17, 066012.	3.5	17
21	Error-correcting microarray design. Genomics, 2003, 81, 157-165.	2.9	16
22	NFBLabâ€"A Versatile Software for Neurofeedback and Brain-Computer Interface Research. Frontiers in Neuroinformatics, 2018, 12, 100.	2.5	15
23	Inferring spatiotemporal network patterns from intracranial EEG data. Clinical Neurophysiology, 2010, 121, 823-835.	1.5	14
24	A dynamical model improves reconstruction of handwriting from multichannel electromyographic recordings. Frontiers in Neuroscience, 2015, 9, 389.	2.8	14
25	MEG Signatures of a Perceived Match or Mismatch between Individual and Group Opinions. Frontiers in Neuroscience, 2017, 11, 10.	2.8	13
26	Towards the Non-Zero Field Cesium Magnetic Sensor Array for Magnetoencephalography. IEEE Sensors Journal, 2021, 21, 18626-18632.	4.7	13
27	Decoding and interpreting cortical signals with a compact convolutional neural network. Journal of Neural Engineering, 2021, 18, 026019.	3.5	12
28	A P300 Brain-Computer Interface With a Reduced Visual Field. Frontiers in Neuroscience, 2020, 14, 604629.	2.8	11
29	Digital filters for low-latency quantification of brain rhythms in real time. Journal of Neural Engineering, 2020, 17, 046022.	3.5	11
30	Testing the efforts model of simultaneous interpreting: An ERP study. PLoS ONE, 2018, 13, e0206129.	2.5	10
31	Navigation Patterns and Scent Marking: Underappreciated Contributors to Hippocampal and Entorhinal Spatial Representations?. Frontiers in Behavioral Neuroscience, 2018, 12, 98.	2.0	9
32	Commentary: Spatial Olfactory Learning Contributes to Place Field Formation in the Hippocampus. Frontiers in Systems Neuroscience, 2018, 12, 8.	2.5	7
33	Modified covariance beamformer for solving MEG inverse problem in the environment with correlated sources. NeuroImage, 2021, 228, 117677.	4.2	7
34	Commentary: Injecting Instructions into Premotor Cortex. Frontiers in Cellular Neuroscience, 2018, 12, 65.	3.7	6
35	Cortical and autonomic responses during staged Taoist meditation: Two distinct meditation strategies. PLoS ONE, 2021, 16, e0260626.	2.5	6
36	GALA: group analysis leads to accuracy, a novel approach for solving the inverse problem in exploratory analysis of group MEG recordings. Frontiers in Neuroscience, 2015, 9, 107.	2.8	5

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37	Latent variable method for automatic adaptation to background states in motor imagery BCI. Journal of Neural Engineering, 2018, 15, 016004.	3.5	5
38	Statistical analysis of multiplex brain gene expression images. Neurochemical Research, 2002, 27, 1113-1121.	3.3	4
39	Mutual information spectrum for selection of event-related spatial components. Application to eloquent motor cortex mapping. Frontiers in Neuroinformatics, 2013, 7, 53.	2.5	4
40	Commentary: Functional Connectivity in the Left Dorsal Stream Facilitates Simultaneous Language Translation: An EEG Study. Frontiers in Human Neuroscience, 2017, 11, 64.	2.0	3
41	High resolution passive speech mapping in dominant hemisphere glioma surgery. Russian Journal of Neurosurgery, 2019, 21, 37-43.	0.2	3
42	Compact and interpretable architecture for speech decoding from stereotactic EEG. , 2021, , .		2
43	Bidirectional Neural Interfaces. , 2018, , 701-720.		1
44	Local Propagation of MEG Interictal Spikes: Source Reconstruction with Traveling Wave Priors. , 2021, , .		1
45	Detection of Instantaneous Functional Coupling from MEG Data by the Means of Projection in Sensor-Space Cross-Spectrum and Statistical Testing. , 2021, , .		1
46	Different central and autonomic nervous system coupling in the experienced meditators and novices during the Taoist meditation. , 2021, , .		1
47	Fast parametric curve matching (FPCM) for automatic spike detection. Journal of Neural Engineering, 2022, 19, 036003.	3.5	1
48	Non-target interference in MEG beamformer time series estimation. International Congress Series, 2007, 1300, 137-140.	0.2	0
49	Passive Intraoperative Language Mapping Using Electrocorticographic Signals. Advances in Intelligent Systems and Computing, 2021, , 533-540.	0.6	0
50	Promising Versions of Non-Zero Magnetic Field Optical Sensors for Magnetoencephalography. International Journal of Psychophysiology, 2021, 168, S120.	1.0	0
51	Pro-active game-based neurofeedback training of parietal alpha rhythm. , 2021, , .		0
52	Exploration of Cortical Dynamics in the Center-Out with Stylus Paradigm. , 2021, , .		0
53	Exploring time interval estimation for familiar and unfamiliar musical pieces. , 2021, , .		0